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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A transmission method capable of transmitting and receiving a data waveform signal and an a periodic information waveform signal among a plurality of devices by full duplex operation, wherein comprising:

<u>inserting</u>, when the information waveform signal consecutively repeats a single pattern, a different pattern is inserted between the <u>repeated single patterns</u> same patterns—before transmitting the <u>repeated</u> single patterns.

- 2. (Original) The method as set forth in Claim 1, wherein the plurality of devices refer to two devices.
- 3. (Currently Amended) The method as set forth in Claim 1, wherein the different pattern is inserted between the same single patterns at a random interval.
- 4. (Currently Amended) The method as set forth in Claim 1, wherein the different pattern is inserted between the same single patterns at a fixed interval.
- 5. (Original) The method as set forth in Claim 1, wherein the different pattern is a pattern which is randomly selected from a group consisting of a plurality of different patterns.

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6. (Original) The method as set forth in Claim 1, wherein the single pattern is a

code representing status information indicative of a state between devices.

7. (Original) The method as set forth in Claim 6, wherein the different pattern is a

code different from the code representing status information.

8. (Original) The method as set forth in Claim 6, wherein the code representing

status information is a code indicative of a stand by state.

9. (Previously Presented) The method as set forth in Claim 7, wherein a time period

for receiving a code representing data of the data signal and a time period for receiving a code

representing status information of the information waveform signal are distinguished from each

other based on a reception signal, and the code representing data is adopted as a different code in

a time period for transmitting the code representing status information.

10. (Original) The method as set forth in Claim 7, wherein, when a different code is

received in the time period for receiving the code representing status information, a previously

received code representing status information is maintained.

11. (Original) The method as set forth in Claim 6, wherein the code is a code in

compliance with an 8B10B encoding system.

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12. (Original) The method as set forth in Claim 1, wherein, when the single pattern to

be consecutively repeated in transmission is changed into a pattern representing other

information at the same transmission timing as with the different pattern, the pattern representing

other information is transmitted.

13. (Previously Presented) The method as set forth in Claim 1, wherein variation

points of a reception signal are detected so as to generate a clock to synchronize the reception

signal based on an average interval between the variation points, and the data waveform or

information waveform signal is received based on the clock thus generated.

14. (Original) The method as set forth in Claim 1, wherein the operation utilizes an

optical signal.

15. (Currently Amended) A transmission method capable of transmitting and

receiving a data waveform signal and an a periodic information waveform signal among plurality

of devices by full duplex operation, wherein comprising:

randomly varying an internal parameter, wherein

when two different types of codes respectively including reverse "1" and "0" correspond

to a single type of information contained in the information waveform signal, and one of the two

types of codes is selected and transmitted in accordance with an-the internal parameter, the

internal parameter is caused to vary at random so as to transmit the code.

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16. (Previously Presented) The method as set forth in Claim 15, wherein variation

points of a reception signal are detected so as to generate a clock to synchronize the reception

signal based on an average interval between the variation points, and the data waveform or

information waveform signal is received based on the clock thus generated.

17. (Original) The method as set forth in Claim 15, wherein the operation utilizes an

optical signal.

18. (Currently Amended) A transmission system capable of transmitting and

receiving a data waveform signal and an a periodic information waveform signal among a

plurality of devices by full duplex operation, comprising:

a transmitter for transmitting adopting a transmission method of a signal such that in

which, when the information waveform signal consecutively repeats a single pattern, a different

pattern is inserted between the repeated single same patterns before transmitting the single

patterns.

19. (Previously Presented) A communications device capable of transmitting and

receiving a data waveform signal and an a periodic information waveform signal among a

plurality of devices by full duplex operation, comprising:

a transmitter for transmitting the data waveform and information waveform

signals; and

a receiver for receiving the data waveform and information waveform signals,

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wherein:

the transmitter includes a random pattern generating section for randomly

generating a pattern different from the information waveform signal, an identification signal

generating section for generating an identification signal which indicates whether a signal to be

transmitted is the data waveform signal or the information waveform signal, and a transmitting

section for transmitting the data waveform or information waveform signal based on the

identification signal, and

the transmitting section, when the identification signal is the information

waveform signal and consecutively repeats a single pattern, transmits the information waveform

signal after inserting a random pattern generated by the random pattern generating section into

the information waveform signal.

20. (Previously Presented) The communications device as set forth in Claim 19,

wherein the receiver includes a signal judging section for judging whether a reception signal is

the data waveform signal or the information waveform signal, and a setting section for setting a

time period for receiving the data waveform signal and a time period for receiving the

information waveform signal, in accordance with a result of judgment by the signal judging

section.

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21. (Original) The communications device as set forth in Claim 19, wherein the receiver includes a bit synchronization circuit for detecting variation points of a reception signal and generating a clock to synchronize the reception signal based on an average interval between the variation points.